

## KEY

Land Ocean American Airbase Japanese Airbase Port (as well as airbase)		Henderson Field Max. Bombing Range for SBD, TBD and F4F Henderson Field — Infantry, Supply Points, and Aircraft (100 plane capacity) Cape Esperance — Japanese Infantry and Supply Points only
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## TF MISSIONS

## ENDURANCE

## ATTACK RANGES

## SEARCH RANGES

C — Combat Patrol	60	FORTRESS	18	FLOAT PLANES	20
B — Bombardment	60	BETTY	15	FORTRESS	20
T — Transport	60	ZEKE	15	BETTY	20
U — Submarine	80	NELL	15	NELL	20
FC — Fast Combat Patrol	6	VAL	6	VAL	12
FB — Fast Bombardment	6	KATE	6	KATE	12
FT — Fast Transport	6	WILDCAT	5	DAUNTLESS	10
R — Return		DAUNTLESS	5	AVENGER	10
FR — Fast Return		AVENGER	5	DEVASTATOR	6
		DEVASTATOR	3		

## DAMAGE CAUSED BY HIT

AA (Secondary) Gun	½
CL Main Gun	1
CA Main Gun	2
BOMB	3
21"Torpedo	5
Other Japanese BB Main Guns	6
MUTSU Main Gun	7
US BB Main Gun	8
24"Torpedo	9
YAMATO Main Gun	9

## RELATIVE ACCURACY

FORTRESS	1 (Bomb)
AVENGER	2 (Torpedo)
DEVASTATOR	2 (Torpedo)
NELL	2 (Torpedo)
BETTY	4 (Torpedo)
KATE	8 (Torpedo)
DAUNTLESS	12 (Bomb)
VAL	16 (Bomb)

## SEARCH SUCCESS FREQUENCY

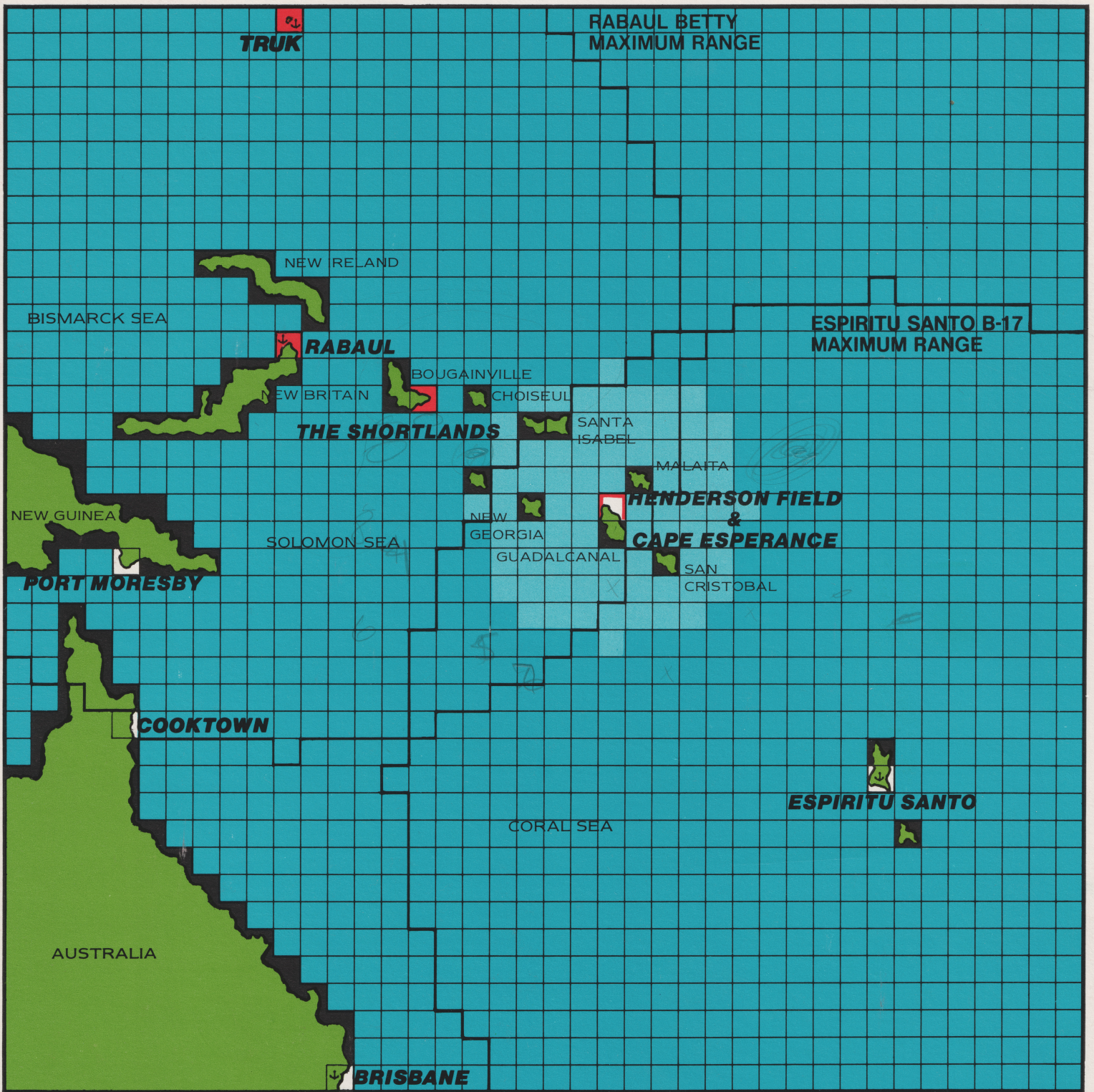
### AIRCRAFT

### DISTANCE


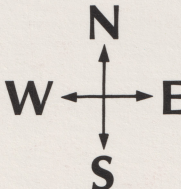
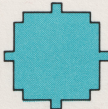





	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	98	60	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	98	80	60	40	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	98	86	73	60	46	33	20	6	0	0	0	0	0	0	0	0	0	0	0	0	0
4	98	89	80	69	60	50	40	30	20	10	0	0	0	0	0	0	0	0	0	0	0
5	98	91	84	76	67	60	52	43	35	28	20	10	3	0	0	0	0	0	0	0	0
6	98	93	86	80	73	66	60	53	46	40	33	26	20	13	6	0	0	0	0	0	0
7	98	94	88	82	77	71	65	60	54	48	42	37	31	25	20	14	8	2	0	0	0
8	98	94	89	85	80	75	69	64	60	55	50	44	40	34	30	25	20	15	10	5	0
9	98	95	91	86	82	77	73	68	64	60	55	51	46	43	37	33	28	24	30	15	11
10	98	95	91	87	84	80	76	71	67	63	60	56	52	47	43	40	35	31	28	23	20
11	98	96	92	89	85	81	78	74	70	67	63	60	56	52	49	45	41	38	34	30	27
12	98	96	93	89	86	83	80	76	73	69	66	63	60	56	53	50	46	43	40	36	33
13	98	96	93	90	87	84	81	78	75	72	69	66	63	60	56	53	50	47	44	41	38
14	98	97	94	91	88	85	82	80	77	74	71	68	65	62	60	57	54	51	48	45	42
15	98	97	94	91	89	86	84	81	78	76	73	70	67	65	62	60	57	54	52	49	46
16	98	97	94	92	89	87	85	82	80	77	75	72	69	67	64	62	60	57	55	52	50
17	98	97	95	92	90	88	85	83	81	78	76	74	71	69	67	64	62	60	57	55	52
18	98	97	95	93	91	88	86	84	82	80	77	75	73	71	68	66	64	62	60	57	55
19	98	97	95	93	91	89	87	85	83	81	78	76	74	72	70	68	66	62	62	60	57
20	98	97	95	93	91	89	87	86	84	82	80	78	76	73	71	69	67	65	63	62	60
21	98	98	96	94	92	90	88	86	84	82	80	79	77	75	73	71	69	67	65	63	61
22	98	98	96	94	92	90	89	87	85	83	81	80	78	76	74	72	70	69	66	65	63
23	98	98	96	94	93	91	89	87	86	84	82	80	79	77	75	73	72	70	68	66	65
24	98	98	96	94	93	91	89	88	86	85	83	81	80	78	76	75	73	71	69	68	66
25	98	98	96	95	93	91	90	88	87	85	84	82	80	79	77	76	74	72	71	69	67
26	98	98	96	95	93	92	90	89	87	86	84	83	81	80	78	76	75	73	72	70	69
27	98	98	97	95	94	92	91	89	88	86	85	83	82	80	79	77	76	74	73	71	70
28	98	98	97	95	94	92	91	89	88	87	85	84	82	81	80	78	77	75	74	72	71
29	98	98	97	95	94	93	91	90	88	87	86	84	83	82	80	79	77	76	75	73	72
30	98	98	97	95	94	93	91	90	89	87	86	85	84	82	81	80	78	77	76	74	73
31	98	98	97	96	94	93	92	90	89	88	87	85	84	83	81	80	79	78	76	75	74
32	98	98	97	96	94	93	92	91	89	88	87	86	85	83	82	81	80	79	78	76	75
33	98	98	97	96	95	93	92	91	90	89	87	86	85	84	83	81	80	79	78	76	75
34	98	98	97	96	95	94	92	91	90	89	88	87	85	84	83	82	81	80	78	78	76
35	98	98	97	96	95	94	93	91	90	89	88	87	86	85	84	82	81	80	79	78	77
36	98	98	97	96	95	94	93	92	91	89	88	87	86	85	84	83	82	81	80	78	77

Cross reference number of aircraft searching with the distance to an enemy surface task force to determine the probability of spotting the enemy task force (in clear weather). The probability of spotting subs is considerably smaller than that of sighting the enemy surface task forces.





## KEY

	Land			Henderson Field Max. Bombing Range for SBD, TBD and F4F
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	American Airbase			Cape Esperance — Japanese Infantry and Supply Points only
	Japanese Airbase			
	Port (as well as airbase)			



## TF MISSIONS

C — Combat Patrol
B — Bombardment
T — Transport
U — Submarine
FC — Fast Combat Patrol
FB — Fast Bombardment
FT — Fast Transport
R — Return
FR — Fast Return

## ENDURANCE

60
60
60
80
6
6
6

## ATTACK RANGES

FORTRESS
BETTY
ZEKE
NELL
VAL
KATE
WILDCAT
DAUNTLESS
AVENGER
DEVASTATOR

18
15
15
15
6
6
5
5
5
3

## SEARCH RANGES

FLOAT PLANES
FORTRESS
BETTY
NELL
VAL
KATE
DAUNTLESS
AVENGER
DEVASTATOR

20
20
20
20
12
12
10
10
6

## DAMAGE CAUSED BY HIT

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## SEARCH SUCCESS FREQUENCY

### AIRCRAFT

### DISTANCE

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	98	60	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	98	80	60	40	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	98	86	73	60	46	33	20	6	0	0	0	0	0	0	0	0	0	0	0	0	0
4	98	89	80	69	60	50	40	30	20	10	0	0	0	0	0	0	0	0	0	0	0
5	98	91	84	76	67	60	52	43	35	28	20	10	3	0	0	0	0	0	0	0	0
6	98	93	86	80	73	66	60	53	46	40	33	26	20	13	6	0	0	0	0	0	0
7	98	94	88	82	77	71	65	60	54	48	42	37	31	25	20	14	8	2	0	0	0
8	98	94	89	85	80	75	69	64	60	55	50	44	40	34	30	25	20	15	10	5	0
9	98	95	91	86	82	77	73	68	64	60	55	51	46	43	37	33	28	24	30	15	11
10	98	95	91	87	84	80	76	71	67	63	60	56	52	47	43	40	35	31	28	23	20
11	98	96	92	89	85	81	78	74	70	67	63	60	56	52	49	45	41	38	34	30	27
12	98	96	93	89	86	83	80	76	73	69	66	63	60	56	53	50	46	43	40	36	33
13	98	96	93	90	87	84	81	78	75	72	69	66	63	60	56	53	50	47	44	41	38
14	98	97	94	91	88	85	82	80	77	74	71	68	65	62	60	57	54	51	48	45	42
15	98	97	94	91	89	86	84	81	78	76	73	70	67	65	62	60	57	54	52	49	46
16	98	97	94	92	89	87	85	82	80	77	75	72	69	67	64	62	60	57	55	52	50
17	98	97	95	92	90	88	85	83	81	78	76	74	71	69	67	64	62	60	57	55	52
18	98	97	95	93	91	88	86	84	82	80	77	75	73	71	68	66	64	62	60	57	55
19	98	97	95	93	91	89	87	85	83	81	78	76	74	72	70	68	66	62	62	60	57
20	98	97	95	93	91	89	87	86	84	82	80	78	76	73	71	69	67	65	63	62	60
21	98	98	96	94	92	90	88	86	84	82	80	79	77	75	73	71	69	67	65	63	61
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23	98	98	96	94	93	91	89	87	86	84	82	80	79	77	75	73	72	70	68	66	65
24	98	98	96	94	93	91	89	88	86	85	83	81	80	78	76	75	73	71	69	68	66
25	98	98	96	95	93	91	90	88	87	85	84	82	80	79	77	76	74	72	71	69	67
26	98	98	96	95	93	92	90	89	87	86	84	83	81	80	78	76	75	73	72	70	69
27	98	98	97	95	94	92	91	89	88	86	85	83	82	80	79	77	76	74	73	71	70
28	98	98	97	95	94	92	91	89	88	87	85	84	82	81	80	78	77	75	74	72	71
29	98	98	97	95	94	93	91	90	88	87	86	84	83	82	80	79	77	76	75	73	72
30	98	98	97	95	94	93	91	90	89	87	86	85	84	82	81	80	78	77	76	74	73
31	98	98	97	96	94	93	92	90	89	88	87	85	84	83	81	80	79	78	76	75	74
32	98	98	97	96	94	93	92	91	89	88	87	86	85	83	82	81	80	79	78	76	75
33	98	98	97	96	95	93	92	91	90	89	87	86	85	84	83	81	80	79	78	76	75
34	98	98	97	96	95	94	92	91	90	89	88	87	85	84	83	82	81	80	78	78	76
35	98	98	97	96	95	94	93	91	90	89	88	87	86	85	84	82	81	80	79	78	77
36	98	98	97	96	95	94	93	92	91	89	88	87	86	85	84	83	82	81	80	78	77

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